

## SEQUENCE LISTING

<110> ChondroGene  
Liew, Choong-Chin

5       <120> Method for the Detection of Gene Transcripts in Blood and Uses  
          Thereof

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          <151> 2000-01-04

<150> US 60/115,125

15      <151> 1999-01-06

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<170> PatentIn version 3.2

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10 gttctttctc actcnccctaa aactgngggt ctgcctggag aaaanctaca tctgcacaga 660  
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25 actcacgatc caaaactatga atttttagatt cggtatcaaac gaggattgtatccgaggacc 180  
aacgttgtga taaatcttac gtcgtttat atattaagttttgtggagg atcgataag 240  
30 tctatagtgt ttgtcacaga tagtcccgta ccacacccca gaccatagga gtcgctctcc 300  
ggaccgcggcgtt ctaatggg 318  
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tatcaaatta taaacccacc cacattactt aaaattttt acatttccca ataaaaaacc 120  
45 caaataaaca aaaacttcca atctccattt aaaaat 155

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5 <213> Human

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10 aaacaccctt ttgggtgtcaa gaagaaaaag actagctca ctgaacagag aaatgctgga 120  
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 gggttcccg gggAACCCaa cccttaagg ggtnnnnnn aattttcccc caaaaaaagg 120

25 gaaaaantt tccggggggc ccacccggga agggntnccg gggaaaggg 168

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30 <212> DNA  
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 cccacattc cattttaat atatactgtg ctttacaaat attataatat gtttaaaat 180

40 atgtcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaaaaa ataagcattc 240  
 ttgaatata tatttagttt ttatgtgg tagggaaatc aaagccagag ggagtagaaa 300

caaaatttgt gatttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga 360

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accaagatgg tcaacaga 438

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      cttaaggnt tgggggaatt ccccaaaaaa aggaaaaaat ttcccgggg gcccacccgg    120

15    aaagggggaa gcgcgcgc accggggggg gggnaaaaag gtgggttcc ccctttcc    180  
      aattcccaaa accaatttc accaatttc aaaaggnaaa ccaaccnttc ccaaaatggg aaagg    235

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gggggnccaa accggnaaag gnnttggaa aaccaaattt ttttggnc caacccccc 120

45 caaattgggg ggnnaaaccaa atttaagggg ggaagggggg gncccccccg ggaaaggccc 180

aaggggggaa aattttccg ggggtggtn ggggaacca atttaagggg ggggc(cc)cg 240

gggggggtcc ccttggc(c)n ttttc(ctt)t tgggtnaaaa aaaaaaaccc ctg 294

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aagtttaatc cctgggttct aactaccctt actgtca(t) agcttaacct gcctccaatc 120

15

ctgtacttga actctaaaac tggggagaa actcagtgt taccccaaca gattcatttc 180

aaatagctgt aaaaggtatg ttactccag aagaccagag ttgcttctt tgaacttctc 240

20

attccttggg ccttaggaacc ctcatcaccc tcacccaaac gtcaacccag atcttcttt 300

ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgtggatt 360

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tttaggcggc accccaacaa caccaggccc tacttttcc aaggncgggg aagcccatgg 180

45 gttctggna acgggcaatg cgggcttgca acggnggaa naaaaacagn cccaaaagaa 240

tg 242

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tctcagctca ctgcaacctc cacctctcag gagaattgct gaacctggga ggcggagggtt 120  
15 gcagggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct 180

c 181

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tnccccnccn ntnanacna aanntngcac tcttggnntgc 100

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cgggaaggcc ntggggaaa aaaccaangg ncaaaccccc ccaaccacnc ggccccccc 120

15

aaggggggtg gggaagagcc aaattcttt gggaaanaac gcccccttgg ggaaaanaag 180

gccaaccacc ttcaacanc ccccaangcg nggaagccat ttcttgg 227

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30

ggaagaattt tatgtggag ttttaatgg ttcatttca ttggctataa ctcagttaca 180

aggagaaaata taactgcaga ggagcttga aaatttagtt cagctgaggg taaaggaaga 240

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agaatg 306

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40 ttgaggcgaa aggactcgcg gatttgacgc ttgatgcgggt tgcgctcgac ggcgagctt 180  
acgcttttt tgccgatcac caaacctagg cggggatgttcaagctgggt atcgcgccgt 240  
acgacgacgaa cactttgcc cgggagctt accgcttggg gagtcgaaga ctgccttgna 300  
45 ttgccgggaa gtcagcagtc gcttttcccc ggncgaagcc tcgaactcac cancctgtct 360

ggattaatta gacagcaaga cgcttgcggc cccttggcg cgaacgaacn ncgaaaagga 420  
 cttgcgcggc ccgttcttt gggggccaa taccgggcn cggggaaaac ccgngggng 480  
 5 gccaaacccc cc 492

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 45 gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta 180

gtcgggtact aaggcgtag cgaaggcgaa gcgccgatgt gaagggggtt aatattcctc 240  
cacttgccat gcgtgtaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300  
5 tggcgccag cagggcgcc tcgcggcca aaccgaacct caggtcanac ttccaagaaa 360  
agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg 420  
anaacatcct aaggngctcg agagtacttt ctagagcggc cgccggcccc atcganttt 480  
10 ccacccgggn ggggtaccag 500

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n g a t n n a g a c c n c n n a t c a c t a a t a c a n c c a t n a c t c a n a t g a c t n t t t g t g c g c t t 120  
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5 actagattt actgttagatg gtagataaaa gtccagtgaa aagcaaagat gtgtaatgtt 180  
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25 gcctaatacg agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa 360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

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         tttgaattc taaactgtct ctgggtgggt gtgggtgccca ccaagagcat gtgtcatgt   180  
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	taaaatgata gatgagataa aatgatgata taaaatgatg agatgaatga tgagatgatg	180
15	agatgaatga taaaatgaaa tcatgagatg agatgatgaa atgaaatggt gagatgaaat	240
	gatgagatga aatgaaatag taaaatgaaa ttgaaataaa atcgaaatga gagatgaaat	300
	gatgagatga taaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga	360
20	tgagatgaca taaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca	420
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 10 <223> n is a, c, g, or t  
  
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 15 ngacgcgccg tacaggntna attatggnan cttacatggn aaaggggcan ctcaatgtcc 120  
  
 cacag 125  
  
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 atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg 120  
  
 35 aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga 180  
  
 cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa 240  
  
 40 tgaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatgat tgaaatgaaa 300  
  
 ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatgaa agagatgtg 360  
  
 catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420  
  
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gaaatgagat gaaataaaat aatgaaatga tgaaataatg aatgaaaat gagatggaaa 180  
30 tggatgagatg agaagaaatg atgagatgaa atgatgaaaatg gatgagatg aatgaaaatg 240  
gatgaaatga tgagatgaga tgaaatatg tgagtggaaa tgacataatg aatgaaaatg 300  
35 tgaaatggaa taatgaaatg gaaatgatg gctgagatgc aatgagttga aatgagatg 360  
aatgatgaaa tggatgagatg aatgatgaa atgaaataat gaaatgagat gaaataaaat 420  
40 aatgaaaatg tgaaataatg aatgaaaat gaaatggaaa tggatgagatg agaagaaatg 480  
atgagatgaa atgatgaaaat 500

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cataaaatga gatggaaatga gatgtatga tggaatgaga tgagatgaaa tgagatgaaa 180

20 tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgtatgaga tgatgagatg 240

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<210> 75

<211> 155

<212> DNA

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taaaatgatg aaatgtatgag gtgtgagat gaaatgtatgaaatgaaatgaaatgaa 120

35 tgagatgaca tgaaaataatg aaacgaaattt gaaat 155

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ctacttnaga ngaantcctc gcaaaatcct tgaatcacccg cttagtgca gtgatatcac 120

cgccatgaaa ttctgctcg attagctac gttgttgga tagaggccaa acaaggctgt 180

45 tatcggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300  
 aaatatgagg ggtggcaagg tttgcctgt tacattctca aatggaagca aatttagat 360  
 5 gtcattg 367

10 <210> 77  
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30 tcagtgttg gggtttattt taaaagaat agggtgccac cagatgtct ttagtggagg 180  
 agaaatgagg ccagagtgac tgcctagaaa attaagtgg taaattaatc acttttct 240  
 aggtccttc ttgtct 257

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 nntaantaaa aagggtgaag aannttactt cnctgggcc taaaaaacnt tttcntcagt 120  
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 tattaccaaa atatttggac cattantaaa gantagggcc aaccrnaatt ttcttgaaa 180  
 ttccgttaa atagccgtta aatgtttta cccatttcat attggatacc ttaaattata 240  
 35  
 ataatggatt ttattgttaa attgtgtgtg tgtgggtgt atgccctgtc tttctcctc 300  
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35 ctttgatgtt caagtattta agaccctatg cnaatatttt ttacctttc taataaacca 120

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gaaaaanaaa tccttttaa anggaantcc aagggaaagga ncctgnncaa nacttcccn 180

30 ccaataaaaaa aaaccntttt ggaaangggg aaa 213

<210> 81

35 <211> 443

<212> DNA

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<22> n is a, c, g, or t

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<22> n is a, c, g, or t

<400> 81

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tgatgaaatg agatgagatg agaagaaaatg acttgatgag atgagataaa atgatgaaat 120

gaaatgaaatg gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180

15 aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatggat 240

gagaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa 300

20 tgaattgata atattgaatg gaaattgaaa gatgagattg gatgaaatga tgagatgaaa 360

tgaaatgtt gaaatgaaatg aagagatgta acatgaaatg agctgaaatg atgagatgaa 420

atgaaatgaa atgagattaa atg 443

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<210> 82

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25 gacctctgaa tgtattantg anncaagtga tagccaagat atttgaaaga aaaatagata 120  
ntaggggacct gctctataag cccatcataa tttattatga agttataaca agtaaaacag 180  
taaggtattt ggcatttggaaat agagaaccca gaaacagacc caatgcatttgg gtacaggata 240  
30 taacacaggg aaatgaggaaat caatatatgg ttctggata atttttata tggggaaaat 300  
aaagaaaattt gatccctacc tcacacatac aaaaaaaaaatc ataatttata taaaaacttg 360  
35 catgtgaaag gaaagactttt aaaacattt aaaaaagtat tggaggctat gatcttgggg 420  
taggaaagca tttctttttt tt 442

40 <210> 83  
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10 <400> 83  
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15 aggaaggaag gaagg 135

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20 <212> DNA  
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 aacttcctca gaaggacaag agacaaagaa gtgggggagg ccctcctatc catagctgag 180

35 agggttatt ctttgtggtt ctgctgtcag agcccttggta tgtctgatct gagatggagc 240  
 aaccccagct agacagaact ttgttagattt tggggggttt aaaaggcctc aagcaaattc 300

40 taaaacttcc ttgaaccccc ctggcatagg ctcagttcc ctgact 346

<210> 85  
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45 <212> DNA  
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<400> 85  
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5    gaaaaagaaaa tggtttttt tgccgaaatc aaccgggtaa                         100

<210> 86  
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 10    <212> DNA  
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15    gaaaagagga agaaacgc tttaggagtt aaggattaaa gtaaaaatta tttgacata 120

attacctttt ttgtgacca ctcttaagg ccaggaacat atttggagaa gcctagttgt 180

20    atgttaacagt gtggggtttc a    201

<210> 87  
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 25    <212> DNA  
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30    aacccagaac gaacgcgtt agtgcgcgtt atttccctag gatagagtgc gtgacggaa 120

tctttaccc cggcactcgg gtccaccctc cggcaccag aggtattctc cggcgagtgc 180

35    ttaaccatcg caatcgcgca ccgagttaa ggaccacttcc ccaccttct cattagttaa 240

ggagaacgct actttacccc atagacggag aaatcgctac tcaactacca ggccgcgcgc 300

gtcgagtccc tttcccttc tttatgcatt tagagcggtt tcgtaagagt tttccctaga 360

40    ttcttctaag cgtacgcgtt ctactccat gtttcgtta atccagcccg aactaacgc 420

gcggaggagt cgatccgtt actcctatcc cgtcggctcg gatgtactac aggagctaa 480

45    aaaacaaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a                        531

<210> 88  
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 5 <213> Human

<400> 88  
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10 cattcggtcc agtgcctcgc cctattagcc cttaagccca ccgttctaa aactcccaga 120  
 acagccaaac cggtccgccc aaggcctccg tcgtttata atatattccg ttacgtata 180  
 aggaacgaac cccccttcat taccacggtc ccgcgtccgc ctccctctcc attcgcaaca 240

15 gttctattcc ttccagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa 300  
 gatagcaaag attaccagc ttctattcct cgccccagag ccgagtaaat cgaagtttat 360

20 agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa 420  
 tataaactta atgtccctt tattctcccg gacgcccctt ttaaccactt cttcctatct 480  
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 30 <213> Human

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40 ttccaccggc ctggtttgg ttttccata attaattaac caggggncc anttaaaaaa 120  
 aattaaggna aggnttaaaa aatttaacca anggggggtt taaagggnntt tttttttta 180  
 aaaaaaaaaagg taaaancccc ccctttttt ttgggttggg gtgggaaaat ttgggaanc 240

45 ctttaaccccccc gggttttgg gttttttgg cccaaacccc ccggaaaaaa attaaaaaaaa 300

ggaccggittt ccatttaat gggtattggg aa 332

5 <210> 90  
<211> 185  
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cggtggtaac tattaaaaca taagtttaat cggtatttaa aattttaaaa tcaaaaaaaaa 120

15 taaaatatat gcaaccctcc attccaagga agtatgt tactagatta tctgaaaatt 180

ctcct 185

20 <210> 91  
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<220>  
 15 <221> misc\_feature  
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 <223> n is a, c, g, or t

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agatgaaaag agttgatgag atgatgagat gaaatgagat gaaaagagat gaaatgagat 120

gaaatgaaaat gatgagatga aatgaggtga aatgaaatta gatgaaacgt aatgagatga 180

30 aatgacctaa tgaaatgaaa aatgaaatg aaataatgaa atgaggtgaa attaaatgag 240

atgatgaaaat taaatgatga aatgaaataa tgaaatggaa atgaaatgga aatgatgaga 300

35 tgaatgatga gatgaaatga tgagatgaga tctaattatg agaggagatg atgagatgaa 360

ntgagatgaa aagagatgaa atgagatgaa accgaaatga tgagatgaaa tgaggtaaa 420

tgaaattaga tgaaacgtaa tgagatgaaa tgacataatg aatgaaaaaa atgaaatgaa 480

40 aataatgaaa gaggtgaaat 500

<210> 100  
 45 <211> 397  
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<213> Human

- <220>
- 5 <221> misc\_feature
- <222> (8)..(8)
- <223> n is a, c, g, or t
  
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- <222> (39)..(39)
- <223> n is a, c, g, or t
  
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- 15 <221> misc\_feature
- <222> (50)..(50)
- <223> n is a, c, g, or t
  
- <220>
- 20 <221> misc\_feature
- <222> (56)..(56)
- <223> n is a, c, g, or t
  
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- 25 <221> misc\_feature
- <222> (71)..(72)
- <223> n is a, c, g, or t
  
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- 30 <221> misc\_feature
- <222> (97)..(97)
- <223> n is a, c, g, or t
  
- <220>
- 35 <221> misc\_feature
- <222> (110)..(110)
- <223> n is a, c, g, or t
  
- <220>
- 40 <221> misc\_feature
- <222> (177)..(177)
- <223> n is a, c, g, or t
  
- <400> 100
- 45 cccgggangt ttaagttagg gggcctgccc cttaagcnt agtcccaccn tgaaanacac 60

tcccccttcaa nntcttaaa ccttaacttt ctggccnntt tgttcagan atgcctaacc 120  
ctcagggggt cttttgtct ctacgcctaa aaacttaatc tgtttggAAC aattccnntt 180  
cctctctgtA gaaattgacc tggccatggc tcctgtgaat gatacggttg ctattatccc 240  
tgaacactgt aaaaatgaac tttgaaacag ttgggttagga cccaaacaga aaatgtatgtA 300  
tggcttggaa atagttagc tgaacattat gctttaatat ttactggcc attgcagcac 360  
aggtttagaa atttatgttc ggcttttaa agttta 397

<210> 101  
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20 <220>  
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<222> (121)..(121)  
<223> n is a, c, g, or t

25 <400> 101  
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attaaatgt a ctactttca a aagaat taat tgaagaaaga gagatacagg gtatcttaggc 120

30 ngaggaagac cc 132

35 <210> 102  
<211> 246  
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<213> Human

40 <400> 102  
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aaaaatagat aatggtaatc caagcacgat ggttagccatc actctaattg ctgggggtt 180  
45 aacctataac ttattaagtta aagtgcagaatggttttt gacagtattaaat 240

aaacag 246

<210> 103

5 <211> 18

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<220>

10 <223> forward primer of exon 1 of insulin gene used for quantitative  
RT-PCR analysis

<220>

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<400> 103

20 gcccctctggg gacctgac 18

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<211> 18

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25 <213> Artificial Sequence

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<223> reverse primer of exons 1 and 2 of insulin gene used for  
quantitative RT-PCR analysis

30

<220>

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<222> (1)..(18)

35

<400> 104

cccacctgca ggccctct 18

40 <210> 105

<211> 24

<212> DNA

<213> Artificial Sequence

45 <220>

<223> forward primer of βMyHC gene used for quantitative RT-PCR

### analysis

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15 <210> 106  
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20 <220>  
<223> reverse primer of βMyHC gene used for quantitative RT-PCR analysis

25 <220>  
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<222> (1)..(24)

30 <400> 106  
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35 <210> 107  
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40 <220>  
<223> forward primer of ANF used for quantitative RT-PCR analysis

45 <220>  
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<222> (1)..(20)

<400> 107  
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<210> 108  
<211> 20  
<212> DNA  
<213> Artificial Sequence

5

<220>  
<223> reverse primer of ANF used for quantitative RT-PCR analysis

10 <220>  
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<400> 108

15 gcagatcgat cagaggagtc 20

20 <210> 109  
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<212> DNA  
<213> Artificial Sequence

25 <220>  
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30 <220>  
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<400> 109  
ggatgcttca tgtgaacgtg 20

35 <210> 110  
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40 <220>  
<223> reverse primer of APP used for quantitative RT-PCR analysis

45 <220>  
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5 <400> 110  
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10 <210> 111  
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15 <220>  
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20 <400> 111  
cacargagrc arggtcaacg a 21

25 <210> 112  
<211> 22  
<212> DNA  
<213> Artificial Sequence

30 <220>  
<223> reverse primer of ZFP used for quantitative RT-PCR analysis

35 <220>  
<221> primer\_bind  
<222> (1)..(22)

40 <400> 112  
ggattaaat gaagcaccca ga 22